

01
1-[illegible]

(2) 50
(3) 82

DECLARATIONS
OTSSCVT_TL_L - Convert text (logical) to longword


```
0000 1      .TITLE OTSSCVTTLL - Convert text (logical) to longword
0000 2      .IDENT /1-003/ ; File: OTSCVTLL.MAR Edit: SBL1003
0000 3
0000 4
0000 5 *****
0000 6
0000 7 *
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0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: Language independent support library
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 A routine to convert a text string indicating "true" or "false" to
0000 35 a integer representation.
0000 36
0000 37 ENVIRONMENT: User Mode, AST Reentrant
0000 38
0000 39 --
0000 40 AUTHOR: Steven B. Lionel, CREATION DATE: 01-Mar-1979
0000 41
0000 42 MODIFIED BY:
0000 43
0000 44 Edit History
0000 45
0000 46 : 1-001 - Original. Complete rewrite of FOR$CNV IN L. SBL 01-Mar-1979
0000 47 : 1-002 - SBL24781 Fix bug where SP is used instead of AP. SBL 2-Jul-79
0000 48 : 1-003 - Do correct thing if value_size is wrong. SBL 25-Feb-1980
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0000 50      .SBTTL DECLARATIONS
0000 51      :
0000 52      : INCLUDE FILES:
0000 53      :
0000 54      :
0000 55      :
0000 56      : EXTERNAL DECLARATIONS:
0000 57      :
0000 58      : .DSABL GBL                      ; Prevent undeclared
0000 59      :                                     ; symbols from being
0000 60      :                                     ; automatically global.
0000 61      : .EXTRN OTSS_INPCONERR           ; Error code
0000 62      :
0000 63      :
0000 64      : MACROS:
0000 65      :
0000 66      :
0000 67      :
0000 68      : EQUATED SYMBOLS:
0000 69      :
0000 70      :
0000 71      :
0000 72      : OWN STORAGE:
0000 73      :
0000 74      :
0000 75      :
0000 76      : PSECT DECLARATIONS:
0000 77      :
0000 78      : .PSECT _OTSS$CODE PIC, USR, CON, REL, LCL, SHR, -
0000 79      : EXE, RD, NOWRT, LONG
0000 80

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0000 82 .SBTTL OTSSCVT_TL_L - Convert text (logical) to longword
0000 83 :++
0000 84 : FUNCTIONAL DESCRIPTION:
0000 85 :
0000 86 : This routine converts a text string to a longword value
0000 87 : using FORTRAN-77 type L format conversion. The format of
0000 88 : the text accepted is as follows:
0000 89 :
0000 90 : < 0 or more blanks >
0000 91 : < < end of string >
0000 92 : or
0000 93 : < < " " or nothing >
0000 94 : Letter: < "T", "t", "F", "f" >
0000 95 : < 0 or more of any character >
0000 96 : < end of string > > >
0000 97 : The value returned by OTSSCVT_TL_L is:
0000 98 :
0000 99 : All 1 bits (-1) if the character
0000 100 : denoted "Letter" above is "T" or "t".
0000 101 : Zero otherwise.
0000 102 :
0000 103 : If the input string does not conform to the above specification,
0000 104 : value is set to zero (false), and the condition code
0000 105 : OTSS_INPCONERR is returned.
0000 106 :
0000 107 : Note: ANSI X3.9-1978 FORTRAN-77 does not allow for the input
0000 108 : field to be all blank, but since VAX-11 FORTRAN IV-PLUS did
0000 109 : allow it, (returning .FALSE.), it is allowed here too.
0000 110 :
0000 111 : Note: With this implementation, the strings ".TRUE." and
0000 112 : ".FALSE." are valid. In the previous version, they were not.
0000 113 :
0000 114 : Note: For compatibility with previous releases, the global
0000 115 : symbol FOR$CNV_IN_L may be used to call OTSSCVT_TL_L.
0000 116 :
0000 117 : CALLING SEQUENCE:
0000 118 :
0000 119 : status.wlc.v = OTSSCVT_TL_L (input_string.rt.ds, value.wl.r
0000 120 : [, value_size.rl.v])
0000 121 :
0000 122 : INPUT PARAMETERS:
0000 123 :
0000 124 :
0000 125 : input_string = 4 ; Input text string by descriptor
0000 126 : value_size = 12 ; Size of value in bytes. If not
0000 127 : ; specified, 4 is assumed. Valid
0000 128 : ; values are 1, 2 and 4. If invalid,
0000 129 : ; an error is returned.
0000 130 : ; If size is greater than 4, 4 is assumed.
0000 131 :
0000 132 : IMPLICIT INPUTS:
0000 133 :
0000 134 : NONE
0000 135 :
0000 136 : OUTPUT PARAMETERS:
0000 137 :
0000 138 : value = 8 ; Output value by reference
```

00000004
0000000C

00000008


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0000 139 :
0000 140 : IMPLICIT OUTPUTS:
0000 141 :
0000 142 :     NONE
0000 143 :
0000 144 : COMPLETION CODES:
0000 145 :
0000 146 :     $$$ NORMAL      - Successful completion
0000 147 :     OTSS_INPCONERR - Input conversion error
0000 148 :
0000 149 : SIDE EFFECTS:
0000 150 :
0000 151 :     NONE
0000 152 :
0000 153 : --
0000 154 :
0000 155 : FOR$CNV_IN L::      ; For compatibility
0000 156 : .ENTRY  OTSS$CVT_1L_L, *M<R2>
0002 157 :
50 52 D4 0002 158 : CLRL R2 ; Initial value is .FALSE.
61 04 BC 7D 0004 159 : MOVQ @input_string(AP), R0 ; Get descriptor
50 20 3B 0008 160 : SKPC #^A/ /, R0, (R1) ; Skip blanks
61 34 13 000C 161 : BEQL FALSE ; All blank, .FALSE.
61 2E 91 000E 162 : CMPB #^A/./, (R1) ; A period?
50 06 12 0011 163 : BNEQ 10$ ; No
50 50 D7 0013 164 : DECL R0 ; Yes, decrement character count
61 1A 13 0015 165 : BEQL ERROR ; Last character, error
50 51 D6 0017 166 : INCL R1 ; Skip over period
61 54 8F 91 0019 167 10$: CMPB #^A/T/, (R1) ; Test for .TRUE.
61 1B 13 001D 168 : BEQL TRUE
61 74 8F 91 001F 169 : CMPB #^A/t/, (R1)
61 15 13 0023 170 : BEQL TRUE
61 46 8F 91 0025 171 : CMPB #^A/F/, (R1) ; Test for .FALSE.
61 17 13 0029 172 : BEQL FALSE
61 66 8F 91 002B 173 : CMPB #^A/f/, (R1)
61 11 13 002F 174 : BEQL FALSE
0031 175 :
0031 176 : +
0031 177 : Invalid character, return error OTSS_INPCONERR
0031 178 : -
50 00000000'8F D0 0031 179 : ERROR: MOVL #OTSS_INPCONERR, R0 ; Error status code
0031 180 : BRB EXIT ; Return with value .FALSE.
003A 181 :
003A 182 : +
003A 183 : Text string represents .TRUE.
003A 184 : -
50 52 01 CE 003A 185 : TRUE: MNEGL #1, R2 ; Value is .TRUE.
50 01 D0 003D 186 : MOVL #1, R0 ; $$$ NORMAL
003A 05 11 0040 187 : BRB EXIT ; Exit
0042 188 :
0042 189 : +
0042 190 : Text string represents .FALSE.
0042 191 : R2 is already cleared.
0042 192 : -
50 01 D0 0042 193 : FALSE: MOVL #1, R0 ; $$$ NORMAL
0042 194 : BRB EXIT ; Exit
0047 195 :

```

			0047	196	;	+			
			0047	197	;	:	Return to caller with status value.		
			0047	198	;	-			
			0047	199	EXIT:				
			004A	200		CMPB	(AP), #<value_size/4>	:	Is size present?
			004C	201		BLSS	40\$:	No, longword
04	0C	AC	D1	201		CMPL	value_size(AP), #4	:	Is it a longword?
		18	18	202		BGEQ	40\$:	Yes, at least
02	0C	AC	D1	203		CMPL	value_size(AP), #2	:	Is it a word?
		0C	13	204		BEQL	20\$:	Yes
01	0C	AC	D1	205		CMPL	value_size(AP), #1	:	Is it a byte?
		D3	12	206		BNEQ	ERROR	:	If not, it's an error
08	BC	52	90	207		MOVB	R2, @value(AP)	:	Convert byte
		0A	11	208		BRB	50\$:	Exit
08	BC	52	B0	209	20\$:	MOVW	R2, @value(AP)	:	Move a word
		04	11	210		BRB	50\$:	Exit
08	BC	52	D0	211	40\$:	MOVL	R2, @value(AP)	:	Move a longword
		04	04	212	50\$:	RET		:	Return to caller
			006E	213					
			006F	214					
			006F	214		.END			

OTSSCVTTLL
Symbol table

- Convert text (logical) to longword C 11

16-SEP-1984 00:30:17 VAX/VMS Macro V04-00 Page 6
6-SEP-1984 11:13:49 [LIBRTL.SRC]OTSCVTTLL.MAR;1 (3)

ERROR	00000031	R	01
EXIT	00000047	R	01
FALSE	00000042	R	01
FOR\$CNV IN L	00000000	RG	01
INPUT_STRING	= 00000004		
OTSSCVT TL L	00000000	RG	01
OTSS_INPCONERR	*****	X	00
TRUE	0000003A	R	01
VALUE	= 00000008		
VALUE_SIZE	= 0000000C		

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes														
ABS	00000000	(0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE			
_OTSSCODE	0000006F	(111.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG			

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.05	00:00:02.10
Command processing	115	00:00:00.31	00:00:03.38
Pass 1	71	00:00:00.31	00:00:02.08
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	52	00:00:00.29	00:00:00.89
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	274	00:00:00.98	00:00:08.47

The working set limit was 750 pages.
2694 bytes (6 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 10 non-local and 4 local symbols.
214 source lines were read in Pass 1, producing 11 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:OTSCVTTLL/OBJ=OBJ\$:OTSCVTTLL MSRC\$:OTSCVTTLL/UPDATE=(ENH\$:OTSCVTTLL)

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VAX/VMS V4.0

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